

ANAEROBIC DIGESTION PLANTS, VARIOUS

CLIENT – ReFood UK Ltd
CONTRACTOR – Britcon (UK) Ltd
CONTRACT VALUE – £12M+
PROJECT DATE – Ongoing

ReFood UK Ltd regularly commission GGP to produce all Civil and Structural design work for their new Anaerobic Digestion Plants and upgrades to their existing plants.

Anaerobic Digestion Plants convert waste food and animal by-products into renewable energy. ReFood as a group generate enough renewable energy to power the equivalent of more than 50,000 homes every year.

The food waste is separated from any packaging before being mixed with water and heated. Once the mixture has cooled it is held in a mixing tank for 3 days before being transferred into digester tanks.

The mixture is held in the digester tanks for 30–35 days without oxygen. Bacteria within the tank break the mixture down and produces methane gas.

The gas is then collected, filtered, cooled and pressurised before being fed into the ReFood engines which in turn produce electricity. This power is then fed into the National Grid.

GGP design all tank bases, storage bunds, associated plinths and structural steelwork required in both constructing new and refurbishing/extending existing AD plants.

GGP also produce all Civil and Structural designs for various other clients within the Anaerobic Digestion sector.